

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	09/008,947
				Filing Date	1/20/1998
				First Named Inventor	Mills
				Group Art Unit	1745
				Examiner Name	Kalafut
				Attorney Docket Number	AUG 15 2001 ATTACH TO #30 TC 1700
Sheet 1		of 3			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)



OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
OK		ABELÈS, Ed., Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'", <i>Optical Properties of Solids</i> , 1972, pp. 718-754, North-Holland Publishing Company, Amsterdam	(Marsch NA)		
OK		DELBECQ et al., "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers", <i>Phys. Rev.</i> , Nov. 1, 1956, 104 , pp. 599-604			
OK		DÖTSCH et al., "Localized Vibrations of H ⁻ and D ⁻ Ions in NaF and LiF", <i>Solid State Communications</i> , 1965, 3 , pp. 297-298	(Marsch unknown)		
OK		RAUCH et al., "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides", <i>Physical Review</i> , Feb. 1, 1957, 105 , pp. 914-920			
OK		FISCHER et al., "Sh-, S ⁻ Und S ⁻ Zentren In KC1-Kristallen", <i>Physics Letters</i> , Oct. 27, 1964, 13 , pp. 113-114			
OK		FRIED et al., "Solution for the Two-Electron Correlation Function in a Plasma", <i>The Physical Review</i> , Apr. 1, 1961, 122 , pp. 1-8			
OK		ALGER et al., "F Centers in Pure and Hydride-Containing Alkali Halide Crystals", <i>Physical Review</i> , Jan. 15, 1955, 97 , pp. 277-287			
OK		SCHEARER et al., "Microwave Saturation of Paraelectric-Resonance Transitions of OH ⁻ Ions in KCl", <i>Solid State Communications</i> , 1966, 4 , pp. 639-642	(Marsch unknown)		
OK		KERKHOFF et al., "Elektronenspin-Resonanz und Photochemie des U ₂ -Zentrums in Alkalihalogenid-Kristallen", <i>Zeitschrift für Physik</i> , 1963, 173 , pp. 184-202	(Marsch unknown)		
OK		KERKHOFF, "Zum photochemischen Verhalten sauerstoffhaltiger Komplexe in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , 1960 158 , pp. 595-606	(Marsch unknown)		

Examiner Signature		Date Considered	2/19/02
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2		of	3	Attorney Docket Number <i>ACM # IC 1700 30</i>	

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<i>OK</i>		FISCHER, "Die optische Absorption der U ₂ -Zentren in Alkalihalogeniden des BaCl-Typs", Zeitschrift für Physik, 1967, 204 , pp. 351-374	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		MARTIENSSSEN, "Photochemische Vorgänge in Alkalihalogenidkristallen", Zeitschrift für Physik, 1952, 131 , pp. 488-504	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		THOMAS, "Zur Photocjemie des KH-KBr-Mischjristalles", Annalen der Physik., 1940, 38 , pp. 601-608	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		HILSCH, "Über die Diffusion und Reaktion von Wasserstoff in KBr-Kristallen", Annalen der Physik., 1937, 40 , pp. 407-420	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		V. LÜPKE, "Über Sensibilisierung der photochemischen Wirkung in Alkalihalogenidkristallen", Annalen der Physik., 1934, 21 , pp. 1-14	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		BÄUERLE et al., "Infrared Vibrational Absorption by U-Centers in NaI", Phys. Stat. Sol., 1967, 24 , pp. 207-215	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		FRITZ et al., "Infrared Absorption and Anharmonicity of the U-Centre Local Mode", Phys. Stat. Sol., 1965, 11 , pp. 231-239	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		KLEINSCHROD, "Photochemische Zersetzung von KH und KD in KBr-Kristallen", Ausgegeben, Jan, 5, 1939, pp. 143-148	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		HILSCH, "Eine neue Lichtabsorption in Alkalihalogenidkristallen", Fachgruppe II, pp. 322-328	<i>(OK)</i>	<i>(OK)</i>	
<i>OK</i>		FRITZ, "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen", J. Phys. Chem. Solids, 1962, 23 , pp. 375-394, Pergamon Press, Great Britain	<i>(OK)</i>	<i>(OK)</i>	

Examiner Signature	<i>OK Kalafut</i>	Date Considered	<i>2/19/02</i>
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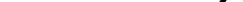
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PTO/SB/08B (Modified)

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TC 1700

Institute for form 1449B/PTO

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Sheet	1	of	10	Attorney Docket Number	62-226-8A1
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

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SK	R. Mills, J. Sankar, P. Ray, B. Dhandapani, J. He, "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Single Crystal-Diamond Films", Chemistry of Materials, submitted. <i>(Pub. Date unknown)</i>		
DK	R. Mills, P. Ray, R. M. Mayo, "Stationary Inverted Balmer and Lyman Populations for a CW HI Water-Plasma Laser", IEEE Transactions on Plasma Science, submitted. <i>(Pub. Date unknown)</i>		
OK	R. L. Mills, P. Ray, B. Dhandapani, J. He, "New Energy States of Atomic Hydrogen Formed in a Catalytic Helium-Hydrogen Plasma", IEEE Transactions on Plasma Science, submitted. <i>(Pub. Date unknown)</i>		
SK	R. Mills, P. Ray, R. Mayo, "Water-Plasma Medium for a Hydrogen Laser", J of Phys. Chem. Lett., submitted. <i>(Pub. Date unknown)</i>		
OK	R. Mills, P. Ray, R. Mayo, "The Potential for an Extremely Versatile Hydrogen Water-Plasma Laser", Phys. Rev. E, submitted. <i>(Pub. Date unknown)</i>		
OK	R. L. Mills, B. Dhandapani, J. He, J. Sankar, "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding", Diamond and Related Materials, submitted. <i>(Pub. Date unknown)</i>		
OK	R. L. Mills, X. Chen, P. Ray, J. He, B. Dhandapani, "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry", Thermochimica Acta, submitted. <i>(Pub. Date unknown)</i>		
OK	R. L. Mills, A. Voigt, B. Dhandapani, J. He, "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride", Materials Characterization, submitted. <i>(Pub. Date unknown)</i>		
SK	R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride", J of Materials Research, submitted. <i>(Pub. Date unknown)</i>		

Examiner Signature	<i>S. Kalafut</i>	Date Considered	10 / 10 / 02
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OK		R. Mills, P. Ray, R. M. Mayo, "The Potential for a Hydrogen Water-Plasma Laser", Applied Physics Letters, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, "Classical Quantum Mechanics", Physica Scripta, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, P. Ray, "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," Quantitative Spectroscopy and Radiative Transfer, submitted. (Pub. Date Unknown)	
OK		R. Mayo, R. Mills, "Direct Plasmodynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications", 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), in press. (Pub. Date Unknown)	
OK		R. Mills, P. Ray, R. Mayo, "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser", J Vac. Sci. and Tech. A, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, P. Ray, B. Dhandapani, J. Dong, S. Hicks, M. Nansteel, X. Chen, J. He, R. Mayo, Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen, Fuels and Energy, submitted. (Pub. Date Unknown)	
OK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", J. Phys. Chem. Lett., submitted. (Pub. Date Unknown)	
OK		R. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium", Foundations of Science, submitted. (Pub. Date Unknown)	

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PTO/SB/08B (Modified)

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SK		R. Mills, P. Ray, R. Mayo, "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts", IEEE Transactions on Plasma Science, submitted. (PUB. DATE UNKNOWN)	
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SK		R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts", International Journal of Engineering Science, submitted. (PUB. DATE UNKNOWN)	

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				First Named Inventor	Mills
				Group Art Unit	1745
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X <i>OK</i>		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.			
f <i>OK</i>		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.			
f <i>OK</i>		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.			
f <i>OK</i>		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.			
f <i>OK</i>		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731. <i>RECEIVED APR 17 2002 (MAY 14 2002)</i>			

Examiner Signature	<i>OK Mills</i>	Date Considered	10/10/02
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PTO/SB/08B (Modified)

#3
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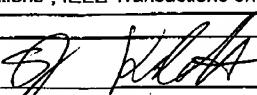
Sheet 1 of 10 Attorney Docket Number 62-226-BA2

ATTACH #36

#36

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OK		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	
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OK		R. L. Mills, P. Ray, "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen", New Journal of Physics, submitted.	
OK		R. L. Mills, P. Ray, "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", Int. J. Hydrogen Energy, in press.	
OK		R. L. Mills, E. Dayalan, "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries", Proceedings of the 17 th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), in press.	
OK		R. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications", IEEE Transactions on Plasma Science, submitted.	

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OK		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted			Official
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted			
OK		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted			
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OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted			
OK		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion", Spectrochimica Acta, Part A, submitted			
OK		R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, in press.			

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OK		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.	(DATE UNKNOWN)
OK		R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas", Int. J. Hydrogen Energy, in press.	(DATE UNKNOWN)
OK		R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion", Int. J. Hydrogen Energy, in press.	(DATE UNKNOWN)
OK		R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter", Int. J. Hydrogen Energy, Vol. 27, No. 3, (2002) pp. 301-322.	(MARCH UNKNOWN)
OK		R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product", Int. J. Hydrogen Energy, Vol. 27, No. 2, (2002), pp. 183-192.	(MARCH UNKNOWN)
OK		R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity", Proceedings of the National Hydrogen Association, 12th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread, The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671-697.	
OK		Keith Keefer, Ph.D., "Interim Report on BlackLight Power Technology: Its Apparent Scientific Basis, State of Development and Suitability for Commercialization by Liebert Corporation."	(MAY UNKNOWN)
OK		R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001). Distributed by Amazon.Com.	(MARCH N.A.)

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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet 4	of 10	Attorney Docket Number 62-226-8A1	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

***EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not
considered. If multiple references are cited, indicate which reference is being examined.**

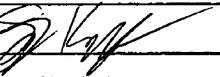
¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Appearant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (Modif d)

Substitute for form 1449B/PTO		Complete if Known	
		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
		Examiner Name	Kalafut
Sheet	5	of	10
		Attorney Docket Number	
		62-226-BA1	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SJK		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar-H ² Radio-Frequency Discharges" J. Appl. Phys. Vol. 78, No. 2, pp. 746-756, July 1995.	
OK		Thorne, et. al., "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" Departments of Physics and Chemistry, Brigham Young University, June 1993.	
OK		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
OK		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
OK		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
OK		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
JK		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
OK		Evans, et. al. "XPS/ESCA Results." CE & A Number 44545, Nov 1994.	
OK		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." Thermacore, Inc. (Note: VAN KELLEN)	
OK		Haus. "On the radiation from point charges." American Journal of Physics, Vol 54, No 12, December 1986. Pp. 1126-1129.	
OK		Jansson. "Hydrocatalysis: A New Energy Paradigm for the 21 st Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.	

Examiner Signature		Date Considered	10/10/02
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PTO/SB/08B (Modified)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		<i>Complete if Known</i>	
		Application Number	09/008,947
		Filing Date	01/20/1998
		First Named Inventor	Mills
		Group Art Unit	1745
Examiner Name	Kalafut		
Sheet 16	of 10	Attorney Docket Number	62-226-8A1

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
<i>SJK</i>		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG & G Idaho, Inc., Nov 1993.	
<i>OK</i>		Karaplus and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 567. <i>(NOTA UNKNOWN)</i>	
<i>OK</i>		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	
<i>OK</i>		Kurtz, et. al. "Report on Calorimetric Investigations of Gas-Phase Catalyzed Hydride Formation." Hydrocatalysis Power Corp. Report, December 1996.	
<i>OK</i>		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, Westinghouse STC, Feb 1994.	
<i>OK</i>		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.	
<i>OK</i>		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
<i>OK</i>		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
<i>SJK</i>		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	

Examiner Signature	<i>SJK Kalafut</i>	Date Considered	<i>10/10/02</i>
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